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- Slade, R.C.T., J. Barker and J.H. Strange, Protonic conduction and ^1H self-diffusion in NAFION film studied by ac conductivity and pulsed field gradient NMR techniques 35 (1989) 11
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- Uchinokura, K., S. Nariki, S. Ito and N. Yoneda, Thermal decomposition process and electrical conductivity of single crystals of NH₄⁺- β - and β' -ferrites 35 (1989) 207
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